



New Claims

 Cancel Claims ~~12~~ through 19

Claims grouping: 20-32, 32-35, and 36-39 where claims 20, 32, and 36 are independent claims drawn to a process and transformation private exchange.

 20. (New) A Process and Transformation Private Exchange; a first sender; a first recipient, all connected to a network; a first data format; a second data format; a standard data format; a storage medium; wherein the Process and Transformation Private Exchange provides

An Exchange Input directed by a process description, a sequence of process nodes, wherein the Exchange Input provides

means to receive data from a sender using the network;

means for data transformation from the first data format to the standard data format;

means to store data in the standard data format in the storage medium;

a first process description including a first process node for the receipt of data in the first data format from the first sender, a second process node for transforming the data to the standard data format, a third process node for storing the data in the storage medium such that the Exchange Input receives data in the first data format from the first sender, transforms the data to the standard data format, and stores the transformed data in the standard data format in the storage medium

An Exchange Output directed by a process description wherein the Exchange Output provides

means to retrieve data in standard data format from the storage medium;

means for data transformation from the standard data format to the second data format;


means to send data to a recipient using the network;

a second process description including a fourth process node for retrieving the data in the standard data format from the storage medium, a fifth process node for transforming the data to the second data format, a sixth process node for sending the data in the second data format to the first recipient such that the Exchange Output retrieves the data in the standard data format from the storage medium, transforms the data to the second data format, and sends the transformed data in the second data format to the first recipient


such that the first sender sends data in the first data format to the Process and Transformation Private Exchange and the first recipient receives from the Process and Transformation Private Exchange the data in the second data format.

21. (New) The Process and Transformation Private Exchange of claim 20 wherein the first process description is a first workflow route, the second


process description is a second workflow route, the Exchange Input and Exchange Output are workflow systems that process workflow routes.


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22. (New) The Process and Transformation Private Exchange of claim 20 further provides a means for tracking the execution of each process node in a process description and a means for reporting the current node in the execution of a process description.
23. (New) The Process and Transformation Private Exchange of claim 20 further provides a means for pricing the use of the Process and Transformation Private Exchange based on usage.
24. (New) The Process and Transformation Private Exchange of claim 20 further provides a means for pricing the use of the Process and Transformation Private Exchange based on a subscription for a period of time.
25. (New) The Process and Transformation Private Exchange of claim 20 further provides a means for pricing the use of the Process and Transformation Private exchange based on the volume of data stored in the storage medium.
26. (New) The Process and Transformation Private Exchange of claim 20 wherein the network is the Internet or connected to the Internet.
27. (New) The Process and Transformation Private Exchange of claim 20 further provides a means for an audit trail of the process descriptions and process nodes executed.
28. (New) The Process and Transformation Private Exchange of claim 20, a second sender connected to the network, a third data format, wherein the Exchange Input further provides means for data transformation from the third data format to the standard data format; a third process description including a seventh process node for the receipt of data in the third format from the second sender, an eighth process node for transforming the data to the standard data format, a ninth process node for storing the data in the storage medium such that the Exchange Input receives data in the third data format from the second

sender, transforms the data to the standard data format, and stores the transformed data in the standard data format in the storage medium such that the second sender sends data in the third data format to the Process and Transformation Private Exchange and the first recipient receives from the Process and Transformation Private Exchange the data in the second data format.

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29. (New) The Process and Transformation Private Exchange of claim 20, a second receiver connected to the network, a fourth data format, wherein the Exchange Output further provides means for data transformation from the standard data format to the fourth data format; a fourth process description including a tenth process node for retrieving the data in the standard data format from the storage medium, an eleventh process node for transforming the data in the standard data format to the fourth data format, a twelfth process node for sending the data in the fourth data format to the second recipient such that the Exchange Output retrieves the data in the standard data format from the storage medium, transforms the data to the fourth data format, and sends the transformed data in the fourth data format to the second recipient such that the first sender sends data in the first data format to the Process and Transformation Private Exchange and the second recipient receives from the Process and Transformation Private Exchange the data in the fourth data format.
30. (New) The Process and Transformation Private Exchange of claim 20 further is directed by a process description and provides, a means for processing data in the standard data format; a fifth process description including a thirteenth process node for retrieving data in the standard data format, a fourteenth process node for processing the data in standard format, a fifteenth process node for storing the validated data in standard format in the storage medium

such that the first sender sends data in the first data format to the Process and Transformation Private Exchange and the first recipient receives from the Process and Transformation Private Exchange the processed data in the second data format.

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31. (New) The Process and Transformation Private Exchange of claim 20, wherein the Exchange Input further provides
- a means for processing data in the standard data format;
 - a sixth process description including a sixteenth process node for the receipt of data in the first data format from the first sender, a seventeenth process node for transforming the data to the standard data format, an eighteenth process node for processing the data in standard format, a nineteenth process node for storing the processed data in the storage medium such that the Exchange Input receives data in the first data format from the first sender, transforms the data to the standard data format, processes the data in standard data format, and stores the transformed and processed data in the standard data format in the storage medium such that the first sender sends data in the first data format to the Process and Transformation Private Exchange and the first recipient receives from the Process and Transformation Private Exchange the processed data in the second data format.
32. (New) A Process and Transformation Workflow Exchange; a first sender; a first recipient, all connected to a network; a first data format; a second data format; a standard data format; a storage medium; wherein the Process and Transformation Workflow Exchange processes a route, a sequence of route steps, and provides
- means to receive data from a sender using the network;
 - means for data transformation from the first data format to the standard data format;
 - means to store data in the standard data format in the storage medium;
 - a first input route including a first route step for the receipt of data in the first data format from the first sender, a second route step for transforming



the data to the standard data format, a third route step for storing the data in the storage medium such that the Process and Transformation Workflow Exchange processing the first input route receives data in the first data format from the first sender, transforms the data to the standard data format, and stores the transformed data in the standard data format in the storage medium

means to retrieve data in standard data format from the storage medium;
means for data transformation from the standard data format to the second data format;

means to send data to a recipient using the network;

a first output route including a fourth route step for retrieving the data in the standard data format from the storage medium, a fifth route step for transforming the data in the standard data format to the second data format, a sixth route step for sending the data in the second data format to the first recipient such that the Process and Transformation Workflow Exchange processing the first output route retrieves the data in the standard data format from the storage medium, transforms the data to the second data format, and sends the transformed data in the second data format to the first recipient

such that the first sender sends data in the first data format to the Process and Transformation Workflow Exchange and the first recipient receives from the Process and Transformation Workflow Exchange the data in the second data format.


33. (New) The Process and Transformation Workflow Exchange of Claim 32, a second sender connected to the network, a third data format, wherein the Process and Transformation Workflow Exchange further provides

means for data transformation from the third data format to the standard data format;

a second input route including a seventh route step for the receipt of data in the third format from the second sender, an eighth route step for

transforming the data to the standard data format, a ninth route step for storing the data in the storage medium such that the Process and Transformation Workflow Exchange processing the second input route receives data in the third data format from the second sender, transforms the data to the standard data format, and stores the transformed data in the standard data format in the storage medium

such that the second sender sends data in the third data format to the Process and Transformation Workflow Exchange and the first recipient receives from the Process and Transformation Workflow Exchange the data in the second data format.


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34. (New) The Process and Transformation Workflow Exchange of Claim 32, a second receiver connected to the network, a fourth data format, wherein the Process and Transformation Workflow Exchange further provides

means for data transformation from the standard data format to the fourth data format;

a second output route including a tenth route step for retrieving the data in the standard data format from the storage medium, an eleventh route step for transforming the data in the standard data format to the fourth data format, a twelfth route step for sending the data in the fourth data format to the second recipient such that the Process and Transformation Workflow Exchange processing the second output route retrieves the data in the standard data format from the storage medium, transforms the data to the fourth data format, and sends the transformed data in the fourth data format to the second recipient

such that the first sender sends data in the first data format to the Process and Transformation Workflow Exchange and the second recipient receives from the Process and Transformation Workflow Exchange the data in the fourth data format.

35. (New) The Process and Transformation Workflow Exchange of Claim 32 further provides



means for processing data in the standard data format;
a third input route including a thirteenth route step for the receipt of data in the first format from the first sender, a fourteenth route step for transforming the data to the standard data format, a fifteenth route step for processing the data in the standard data format, a sixteenth route step for storing the data in the storage medium such that the Process and Transformation Workflow Exchange processing the third input route receives data in the first data format from the first sender, transforms the data to the standard data format, processes the data in the standard data format, and stores the transformed and processed data in the standard data format in the storage medium

such that the first sender sends data in the first data format to the Process and Transformation Workflow Exchange and the first recipient receives from the Process and Transformation Workflow Exchange the processed data in the second data format.

36. (New) A Description Based Process and Transformation Exchange; a first sender; a first recipient, all connected to a network; a first data format; a second data format; a standard data format; a storage medium; wherein the Description Based Process and Transformation Exchange performs a process description, a sequence of process steps, and provides
- means to receive data from a sender using the network;
 - means for data transformation from the first data format to the standard data format;
 - means to store data in the standard data format in the storage medium;
 - a first input process description including a first process step for the receipt of data in the first data format from the first sender, a second process step for transforming the data to the standard data format, a third process step for storing the data in the storage medium such that the Description Based Process and Transformation Exchange performing the first input process description receives data in the first data format from the first sender, transforms the data to the standard data format, and

stores the transformed data in the standard data format in the storage medium

means to retrieve data in standard data format from the storage medium;

means for data transformation from the standard data format to the second data format;

means to send data to a recipient using the network;

a first output process description including a fourth process step for retrieving the data in the standard data format from the storage medium, a fifth process step for transforming the data in the standard data format to the second data format, a sixth process step for sending the data in the second data format to the first recipient such that the Description Based Process and Transformation Exchange performing the first output process description retrieves the data in the standard data format from the storage medium, transforms the data to the second data format, and sends the transformed data in the second data format to the first recipient

such that the first sender sends data in the first data format to the Description Based Process and Transformation Exchange and the first recipient receives from the Description Based Process and Transformation Exchange the data in the second data format.

37. (New) The Description Based Process and Transformation Exchange of Claim 36, a second sender connected to the network, a third data format, wherein the Description Based Process and Transformation Exchange further provides

means for data transformation from the third data format to the standard data format;

a second input process description including a seventh process step for the receipt of data in the third format from the second sender, an eighth process step for transforming the data to the standard data format, a ninth process step for storing the data in the storage medium such that the Description Based Process and Transformation Exchange performing the second input process description receives data in the third data format

from the second sender, transforms the data to the standard data format, and stores the transformed data in the standard data format in the storage medium

such that the second sender sends data in the third data format to the Description Based Process and Transformation Exchange and the first recipient receives from the Description Based Process and Transformation Exchange the data in the second data format.

38. (New) The Description Based Process and Transformation Exchange of Claim 36, a second receiver connected to the network, a fourth data format, wherein the Description Based Process and Transformation Exchange further provides

means for data transformation from the standard data format to the fourth data format;

a second output process description including a tenth process step for retrieving the data in the standard data format from the storage medium, an eleventh process step for transforming the data in the standard data format to the fourth data format, a twelfth process step for sending the data in the fourth data format to the second recipient such that the Description Based Process and Transformation Exchange performing the second output process description retrieves the data in the standard data format from the storage medium, transforms the data to the fourth data format, and sends the transformed data in the fourth data format to the second recipient

such that the first sender sends data in the first data format to the Description Based Process and Transformation Exchange and the second recipient receives from the Description Based Process and Transformation Exchange the data in the fourth data format.

39. (New) The Description Based Process and Transformation Workflow Exchange of Claim 36 further provides

means for processing data in the standard data format;

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a third input process description including a thirteenth process step for the receipt of data in the first format from the first sender, a fourteenth process step for transforming the data to the standard data format, a fifteenth process step for processing the data in the standard data format, a sixteenth process step for storing the data in the storage medium such that the Description Based Process and Transformation Exchange performing the third input process description receives data in the first data format from the first sender, transforms the data to the standard data format, processes the data in the standard data format, and stores the transformed and processed data in the standard data format in the storage medium

such that the first sender sends data in the first data format to the Description Based Process and Transformation Exchange and the first recipient receives from the Description Based Process and Transformation Exchange the processed data in the second data format.

Respectfully Submitted

Norm Ken Ouchi 6/6/04

Norman Ken Ouchi

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